

What is claimed is ;

1. A continuous manufacturing system for composite aluminum panels comprising a continuous expanding device CE for expanding raw material of a core consisting of a cramp 21 for holding raw material 2a before  
5 expansion(pre-expanding) for manufacturing a honeycomb type core, a raw material supplier S that a pusher 29 for pushing raw material having a number of U type grooves 29' in a certain space is fixed on the right upper end of  $\sqsubset$  type brackets 20,20', a number of sliding rods 31 for sliding raw material 2a for the core and the core 2, a subsidiary cramp 22 that  
10 reciprocates from side to side on racks 37,37' by means of a cylinder(not shown in Figs) and simultaneously is ascended and is descended by means of perpendicular cylinders 34,34', a cramp 23 for expanding a raw material for the core that reciprocates from side to side by means of a cylinder(not shown in Figs) and ascends and descends by means of perpendicular  
15 cylinders 35,35', a transferring roller 25 running idle for transferring an expanded core that situates at the right end of the main body B; and a main body AH of a continuous manufacturing system for composite aluminum panels consisting of a suppling part E for providing top and bottom aluminum plates 3,3', passing through rollers 5,5',6,6'... from the  
20 upper and lower rollers 4,4' on the upper and lower sides of said expanded

honeycomb type core 2, supplying part F for providing adhering materials, a combination part L comprising the upper and lower rollers 8,8', a hot pressing part P comprising upper and lower rollers 10,10',11,11',12,12' for hot pressing and supporting, a finishing part M comprising a quick cooling  
5 apparatus 14, a slow cooling apparatus 15, an adhering roller 17 for protecting tape, a side cutter 18 for cutting sides of completed panel and roller 16 for pinching the completed panel established in sequence behind said hot pressing part P.

2. A continuous manufacturing system for composite aluminum panels in  
10 accordance with claim 1 in which said cramp 21 comprises perpendicular cylinders 33,33' for ascending and descending the cramp 21, a cylinder 27 for reciprocating from side to side it on racks 37,37' established on the upper part of a main body B and its outer end is mounted on perpendicular plate 10 of said main body B.

15 3. A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said raw material supplier S is mounted on the perpendicular plate 10 fixed on the upper end of the main body B and reciprocated from side to side by means of cylinders 28,28' connected with lower ends of said brackets.

20 4. A continuous manufacturing system for composite aluminum panels in

accordance with claim 1 in which the front side of the most outer rod of said a number of sliding rods 31 for sliding raw material 2a for the core and the core 2 are connected with a centering handle 32 controlling their positions in front and in the rear and their right and left ends are mounted  
5 on the grooves 29' of said pusher 29 and on length-wise supporter 30 equipped under a transferring roller 25 which mounted on the right end of the expanding device CE, respectively.

5. A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said suppling part F for providing  
10 adhering materials comprises any one device selected from a device for providing hot-melt films 7,7' from roles 7a,7a' for providing film, an applicate(not shown in Figs) spraying hot melting thermoplastic resin adhesive and a device(not shown in Figs) for spraying liquid thermosetting resin adhesive.

15 6. A continuous manufacturing system for composite aluminum panels in accordance with claim 5 in which said hot melting thermoplastic resin adhesive made from any one of thermoplastic resins selected from polyethylene, polyisobutylene, polyamide, ethylene vinyl acetate copolymer and polyurethane.

20 7. A continuous manufacturing system for composite aluminum panels in

accordance with claim 5 in which said liquid thermosetting resin adhesive made from any one of thermosetting resins selected from epoxy or phenol resin.

8. A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which between, before or behind the combination part L and the hot pressing part P, thickness controlling part D consisting of rollers 9,9' for controlling thickness and a side supporting part G consisting of apparatuses 13,13',13" for supporting sides of the completed panel be established.